

MACHINIST STANDARD ASSOCIATE OF SCIENCE DEGREE

The Machinist Standard A.S. degree is designed to prepare students for entry-level employment in manufacturing using advanced setup techniques on machine tools such as lathes, mills, and grinders to produce close tolerance precision parts

Code	Title	Units
Required Courses:		
MACH 021	Machine Shop	3
MACH 022	Machine Shop II	4
MACH 090	Mechanical Print Reading	3
MACH 091	Geometric Dimensioning & Tolerancing	2
MACH 120	Machine Shop Theory	2
MACH 123	Machine Shop III	4
MACH 124	Machine Shop IV	4
MACH 129	Manufacturing Processes	2
Total Units		24

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

Program Learning Outcomes

At the completion of this program, students will be able to:

- a. Identify numerous hand tools.
- b. Identify the different classifications and properties of ferrous and non-ferrous materials.
- c. Demonstrate the process of indicating a machine head to the table with an accuracy of .0005".
- d. Identify features in orthographic multi-views.